

HEWLETT-PACKARD COMPANY
Intellectual Property Administration
P. O. Box 272400
Fort Collins, Colorado 80527-2400

PATENT APPLICATION

ATTORNEY DOCKET NO. 10011234-1

IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): S. Brandon Keller, et al.

Confirmation No.:

Application No.: 10/647,596

Examiner:

Filing Date: Aug. 25, 2003

Group Art Unit:

Title: System And Method Analyzing Design Elements In Computer Aided Design Tools

Mail Stop Amendment
Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- (X) under 37 CFR 1.97(b), or
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
- () under 37 CFR 1.97(c) together with either a:
() Statement under 37 CFR 1.97(e), or
() a \$180.00 fee under 37 CFR 1.17(p), or
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- () under 37 CFR 1.97 (d) together with a:
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(X) Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Statement together with any required copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

() A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

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By Melissa Smith

Typed Name: Melissa Smith

Respectfully submitted,

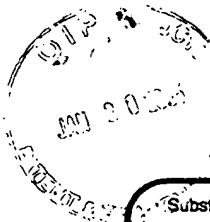
S. Brandon Keller, et al.

By Curtis A. Vock

Curtis A. Vock

Attorney/Agent for Applicant(s)
Reg. No. 38,356

Date: Jan. 20, 2005



PTO/SB/08a (08-03)

Approved for use through 07/31/2008. OMB 0851-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known	
		Application Number	10/647,596
		Filing Date	August 25, 2003
		First Named Inventor	S. Brandon Keller
		Art Unit	
		Examiner Name	
Sheet 1	of 1	Attorney Docket Number	100111234-1

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US-2002/010901 A1			
		US- 6,185,722 B1			
		US-			
		US-			
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		US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
		JP 07334532 A	12/22/1995	Mitsubishi Denki Semiconductor		

Examiner Signature		Date Considered	9/27/06
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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PATENT APPLICATION

ATTORNEY DOCKET NO. 100111234-1

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Inventor(s): S. Brandon Keller, et al.

Confirmation No.: 2410

Application No.: 10/647,596

Examiner:

Not Yet Assigned

Filing Date: Aug. 25, 2003

Group Art Unit: 2123

Title: SYSTEM AND METHOD ANALYZING DESIGN ELEMENTS IN COMPUTER AIDED DESIGN, TOOLS

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Typed Name: Melissa Smith

Respectfully submitted,

S. Brandon Keller, et al.

By Curtis A. Vock

Curtis A. Vock

Attorney/Agent for Applicant(s)

Reg. No. 38,356

Date: Dec. 1, 2005

Telephone No.: (720) 931-3011



PTO/SB/08a (08-03)

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**SUPPLEMENTAL
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 1

Complete if Known

Application Number	10/647,596
Filing Date	August 25, 2003
First Named Inventor	S. Brandon Keller
Art Unit	2825
Examiner Name	Not Yet Assigned
Attorney Docket Number	100111234-1

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
HJ		US-5,831,869	11-03-1998	Ellis, et al.	
		US-6,028,991	02-22-2000	Akashi	
		US-6,230,299	05-08-2001	McSherry, et al.	
		US-6,308,304	10-23-2001	Devgan, et al.	
		US-2002/002701	01-03-2002	Usami, et al.	
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		US-2004/0044972	03-04-2004	Rohrbaugh, et al.	
		US-2004/0078767	04-22-2004	Burks, et al.	
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		US-6,931,613	08-16-2005	Kauth, et al.	
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				

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From: William A. Rudy

Matter No.: 400650

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Number of Pages Transmitted (including this cover sheet): 6

Message:

Applicant(s):	S. Brandon Keller	Confirmation No.	2410
Serial No.	10/647,596	Group Art Unit:	2123
Filed:	August 25, 2003	Examiner:	Not Yet Assigned
For:	System And Method Analyzing Design Elements In Computer Aided Design Tools	Attorney Docket No.	100111234-1

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PATENT APPLICATION

ATTORNEY DOCKET NO. 100111234-1

IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): S. Brandon Keller, et al.

Confirmation No.: 2410

Application No.: 10/647,596

Examiner: Not Yet Assigned

Filing Date: Aug. 25, 2003

Group Art Unit: 2123

Title: System And Method Analyzing Design Elements In Computer Aided Design Tools

Mail Stop Amendment
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Typed Name: Janet Kidpath

Signature: *Janet Kidpath*

Respectfully submitted,

S. Brandon Keller, et al.

By *William A. Rudy*

William A. Rudy

Attorney/Agent for Applicant(s)

Reg. No. **34,916**

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PATENT APPLICATION

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Typed Name: Janet Ridpath

Signature: *Janet Ridpath*

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S. Brandon Keller, et al.

By *William A. Rudy*

William A. Rudy

Attorney/Agent for Applicant(s)

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Date: Jan. 17, 2006

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PO Box 1450
Alexandria, VA 22313-1450

STATEMENT UNDER 37 CFR 1.97(e)

Sir:


The undersigned hereby certifies that either:

- (X) Each item of information contained in the Information Disclosure Statement was cited for the first time in a communication from a foreign patent office in a counterpart foreign application, not more than three months prior to the filing of the statement, or
- () No item of information contained in the Information Disclosure Statement
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Respectfully submitted,

S. Brandon Keller, et al.

By



William A. Rudy

Attorney/Agent for Applicant(s)

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Date: Jan. 18, 2006

Telephone No.: (816) 460-5819

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By

Melissa Smith

Typed Name: Melissa Smith

Respectfully submitted,

S. Brandon Keller, et al.

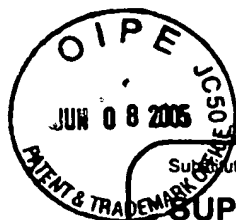
By

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Reg. No. 38,356

Date: June 8, 2005



PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0851-0031

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Substitute for form 1449A/PTO

**SUPPLEMENTAL
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

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of

1

Complete if Known

Application Number	10/647,596
Filing Date	August 25, 2003
First Named Inventor	S. Brandon Keller
Art Unit	2123
Examiner Name	Not Yet Assigned
Attorney Docket Number	100111234-1

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
[Signature]		US-2002/0144219	10-03-2002	Zachariah, et al.	
		US- 2003/0200519	10-23-2003	Argyres	
		US- 2003/0208721	11-06-2003	Regnier	
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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				

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Signature

[Signature]

Date
Considered

9/27/06

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

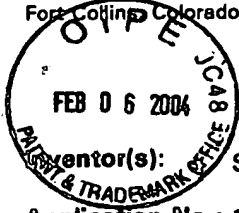
This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

02-01-04
HEWLETT-PACKARD COMPANY
Intellectual Property Administration
P. O. Box 272400
Fort Collins, Colorado 80527-2400

PATENT APPLICATION

ATTORNEY DOCKET NO. 100111234-1



IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): S. Brandon Keller, et al.

Confirmation No.:

Application No.: 10/647,596

Examiner: Not Assigned

Filing Date: Aug. 25, 2003

Group Art Unit:

Title: SYSTEM AND METHOD ANALYZING DESIGN ELEMENTS IN COMPUTER AIDED DESIGN TOOLS

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- ☒ under 37 CFR 1.97(b), or
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97(c) together with either a:
 - ☐ Statement under 37 CFR 1.97(e), or
 - ☐ a \$180.00 fee under 37 CFR 1.17(p), or
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97 (d) together with a:
 - ☐ Statement under 37 CFR 1.97(e)(1) or (2), and
 - ☐ a \$180.00 fee set forth in 37 CFR 1.17(p).
(Filed after final action, a notice of allowance, on or before payment of the issue fee)

Please charge to Deposit Account 08-2025 the sum of \$0.00. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account 08-2025 pursuant to 37 CFR 1.25.

☒ Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Statement together with any required copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

☐ A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

"Express Mail" label no. EV210654855US

Date of Deposit Feb. 6, 2004

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, Alexandria, VA 22313-1450.

By

Typed Name: Wendy Precht

Respectfully submitted,

S. Brandon Keller, et al.

By

Peter C. Knops

Attorney/Agent for Applicant(s)
Reg. No. 37,659

Date: Feb. 6, 2004

FORM PTO-1449

ATTY. DOCKET NO.

APPLICATION NO.

CONFIRMATION NO.

100111234-1

10/647,596

APPLICANT

S. Brandon Keller, et al.

FILING DATE

Aug. 25, 2003

GROUP

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

(Use several sheets if necessary)

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A				
	1B				
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FOREIGN PATENT DOCUMENTS

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	1L					
	1M					
	1N					
	1O					
	1P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

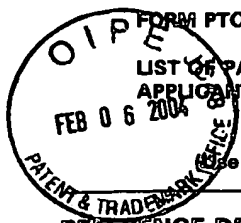
1Q	KELLER, S. Brandon; ROGERS, Dennis R.; LELM, Charles A.; U.S. Patent Application Serial Number 10/706,682, Entitled: Method And Program Product For Determining Nets Requiring Detailed Electromigration And Self Heating Analysis In A Digital Integrated Circuit; Filed November 12, 2003
1R	KELLER, S. Brandon; ROGERS, Dennis R.; LELM, Charles A.; U.S. Patent Application Serial Number 10/706,698, Entitled: Method And Program Product For Performing Self-Heating Analysis In A Digital Integrated Circuit Through A Single Cycle Transient Simulation; Filed November 12, 2003
1S	KELLER, S. Brandon; ROGERS, Dennis R.; LELM, Charles A.; U.S. Patent Application Serial Number 10/706,376, Entitled: Method And Program For Visual Display and One-Click Repair Of Electromigration And Self Heating Design-Rule Violations In A Digital Integrated Circuit Layout Database; Filed November 12, 2003

EXAMINER

M. Jones

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	2L					
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2Q	KELLER, S. Brandon; ROGERS, Dennis R.; LELM, Charles A.; U.S. Patent Application Serial Number 10/706,501, Entitled: Method And Program Product For Performing Electromigration Analysis In A Digital Integrated Circuit By Converting A Netlist To A DC Model And Performing DC Analysis Of The DC Model; Filed November 12, 2003
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2S	KELLER, S. Brandon; ROGERS, Dennis R.; LELM, Charles A.; U.S. Patent Application Serial Number 10/706,552, Entitled: Method And Program Product For Performing Electromigration Analysis In A Digital Integrated Circuit Through A Single Cycle Transient Simulation; Filed November 12, 2003

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3Q	KELLER, S. Brandon; ROGERS, Dennis R.; LELM, Charles A.; U.S. Patent Application Serial Number 10/706,508, Entitled: Method And Program Product For Performing Self-Heating Analysis In A Digital Integrated Circuit Layout Database by Substituting Resistive Models For Active Devices; Filed November 12, 2003
3R	KELLER, S. Brandon; ROGERS, Dennis R.; ROBBERTS, George H.; U.S. Patent Application filed under EV210655516US; Entitled: Method And Program Product For Determining Worst Case Currents In A Digital Integrated Circuit Through Worst-Case Superposition Of Partial Currents; Docket No.: 200300123-1; Filed January 30, 2004
3S	KELLER, S. Brandon; ROGERS, Dennis R.; ROBBERTS, George H.; U.S. Patent Application filed under EV210655564US; Docket: 200308901-1; Entitled: Systems And Methods For Re-Using Circuit Design Analysis Results; Filed January 30, 2004

not considered

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	4L				
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OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

4Q	KELLER, S. Brandon; ROGERS, Dennis R.; ROBERTS, George H.; U.S. Patent Application filed under EV210655581US; Docket No.: 200308899-1; Entitled: System And Method For Determining Detail Of Analysis In A Circuit Design; Filed January 30, 2004
4R	KELLER, S. Brandon; ROGERS, Dennis R.; ROBERTS, George H.; U.S. Patent Application filed under EV210655595US; Docket No.: 200308898-1; Entitled: Systems And Methods That Identify Equivalent Instantiation-Specific Configuration Information For Analysis Tools; Filed January 30, 2004
4S	KELLER, S. Brandon; ROGERS, Dennis R.; ROBERTS, George H. & STEVENS, Scott Alan; U.S. Patent Application filed under EV210655520US; Entitled: System And Method To Limit Analyzed Current Flow In A Circuit Design; Filed January 30, 2004

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PATENT APPLICATION

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5Q	KELLER, S. Brandon; ROGERS, Dennis R.; ROBERTS, George H.; U.S. Patent Application filed under EV210655533US; Docket: 200310172-1; Entitled: System And Method For Processing Configuration Information; Filed January 30, 2004
5R	KELLER, S. Brandon; ROGERS, Dennis R.; ROBERTS, George H.; U.S. Patent Application filed under EV210655555US; Docket: 200310170-1; Entitled: System And Method For Balancing Run-Time And Result Accuracy In A Circuit Design Analysis Tool; Filed January 30, 2004
5S	KELLER, S. Brandon; ROGERS, Dennis R.; ROBERTS, George H.; U.S. Patent Application filed under EV210655578US; Docket: 200308900-1; Entitled: System And Method For Indicating Logic State Combinations Used During Circuit Design Analysis; Filed January 30, 2004

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OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

6Q	KELLER, S. Brandon; ROGERS, Dennis R.; ROBERTS, George H.; U.S. Patent Application filed under EV21065547US; Docket: 200310171-1; Entitled: System And Method For Determining Control Signal Combinations For Use During Simulation Of A Stage Of A Circuit Design; Filed January 30, 2004
6R	<i>not considered</i>
6S	

EXAMINER

H. Jones

DATE CONSIDERED

9/27/06